

# CERTIFICATE OF COMPLIANCE

**Certificate Number** UL-US-L52653-111-22804102-5  
**Report Reference** E52653-20140822  
**Date** 14-Jun-2022

**Issued to:** HIROSE ELECTRIC CO., LTD.  
2-6-3 NAKAGAWA CHUOH  
TSUZUKI-KU YOKOHAMA-SHI, KANAGAWA 224-8540  
Japan

**This is to certify that representative samples of** ECBT2 - Connectors for Use in Data, Signal, Control and Power Applications - Component  
See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

**Standard(s) for Safety:** UL 1977, 3rd Ed., Issue Date: 2016-01-07, Revision Date: 2020-11-17

**Additional Information:** See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Recognized Component Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.



Bruce Mahrenholz, Director North American Certification Program

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



# CERTIFICATE OF COMPLIANCE

Certificate Number UL-US-L52653-111-22804102-5  
Report Reference E52653-20140822  
Date 14-Jun-2022

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

Model	Category Description
Series DF5A, DF5A-xDP-5DSA (yy)	Component Connector
Series DF5A, DF5A-xDS-5C (yy)	Component Connector
Series DF5A, DF5A-xP-5DSA (yy)	Component Connector
Series DF5A, DF5A-xS-5C (yy)	Component Connector



Bruce Mahrenholz, Director North American Certification Program

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



# CERTIFICATE OF COMPLIANCE

**Certificate Number** UL-CA-2224149-0  
**Report Reference** E52653-20140822  
**Date** 14-Jun-2022

**Issued to:** HIROSE ELECTRIC CO., LTD.  
2-6-3 NAKAGAWA CHUOH  
TSUZUKI-KU YOKOHAMA-SHI, KANAGAWA 224-8540  
Japan

**This is to certify that representative samples of** ECBT8 - Connectors for Use in Data, Signal, Control and Power Applications Certified for Canada - Component  
See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

**Standard(s) for Safety:** CSA C22.2 No. 182.3, 2nd Ed., Issue Date: 2016-07, Revision Date: 2021-5

**Additional Information:** See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Recognized Component Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.



Bruce Mahrenholz, Director North American Certification Program

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



# CERTIFICATE OF COMPLIANCE

Certificate Number UL-CA-2224149-0  
Report Reference E52653-20140822  
Date 14-Jun-2022

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

Model	Category Description
Series DF5A, DF5A-xDP-5DSA (yy)	Component Connector
Series DF5A, DF5A-xP-5DSA (yy)	Component Connector



Bruce Mahrenholz, Director North American Certification Program

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



File E52653  
Project 4786452829

August 22, 2014

REPORT

on

COMPONENT - Connectors for Use in Data, Signal, Control and Power  
Applications - Component

Hirose Electric Co Ltd  
Kanawagawa 224-0540 Japan

Recognized Company: HIROSE ELECTRIC CO LTD

Copyright © 2014 UL LLC

UL LLC authorizes the above named company to reproduce this Report only for purposes as described in the Conclusion. The Report should be reproduced in its entirety; however to protect confidential product information, the Construction Details Descriptive pages may be excluded.

## DESCRIPTION

## PRODUCT COVERED:

USR, CNR Component Connector, Series DF5A;

\*Cat. Nos. DF5A-xP-5DSA (yy) and DF5A-xS-5C (yy). Where x can be 2 - 10 and (yy) can be 01-99 or blank.

Cat. Nos. DF5A-xDP-5DSA (yy) and DF5A-xDS-5C (yy). Where x can be 4 - 16 and (yy) can be 01-99 or blank. "(yy)" denotes packaging differences and plating variations

## GENERAL:

These devices are multi-pole connectors intended for factory assembly on copper wire sizes as indicated in Ratings table below and on printed wiring boards where the acceptability of combinations is determined by UL LLC. The devices are identified as follows:

\* USR - Products designated USR have been investigated using US requirements as noted in the Test Record.

\* CNR - Products designated CNR have been investigated using Canadian requirements as noted in the Test Record.

## RATINGS:

Cat. Nos.	No. of Poles Represented	Voltage, Vac	Ampere (A)	Conductor Sizes, AWG, Str
DF5A-10P-5DSA and DF5A-10S-5C	2 - 10	500	8	18
DF5A-16DP-5DSA and DF5A-16DS-5C	8 - 16	500	7	18
DF5A-12DP-5DSA and DF5A-12DS-5C	2 - 12	500	6	20
DF5A-16DP-5DSA and DF5A-16DS-5C	14 - 16	500	5	20
DF5A-10DP-5DSA and DF5A-10DS-5C	2 - 10	500	5	22
DF5A-16DP-5DSA and DF5A-16DS-5C	12 - 16	500	4	22

Disconnecting Use - see Sec Gen for required marking

NOMENCLATURE: - Refer to Ill. 1